

TRANSFORMERLESS
STRING INVERTERS

PVI 3800TL
PVI 5200TL
PVI 6600TL
PVI 7600TL

FEATURES

- 600 VDC
- Highest industry peak and CEC efficiencies
- Lightweight, compact design - smallest in the industry
- Quick and easy installation
- Wide operating voltage range
- DC disconnect
- Passive cooling
- DC arc-fault detection and interrupt

OPTIONS

- Web-based monitoring
- Revenue grade monitoring



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Solectria's PVI 3800TL, 5200TL, 6600TL, and 7600TL are compact, transformerless, single-phase inverters with the highest peak and CEC efficiencies in the industry. These inverters come standard with an integrated DC disconnect, DC arc-fault detection and interrupt, 1 or 2 MPP tracker(s), and a user-interactive LCD and keypad. Their small and lightweight design make for quick and easy installation and maintenance. They have an innovative passive cooling design which eliminates the need for fans in the inverter. These inverters include an enhanced DSP control, comprehensive protection functions, and advanced thermal design enabling highest reliability and uptime. Any PVI 3800-7600TL may be purchased with Solectria's Rapid Shutdown Combiner to comply with NEC 2014.



Built for the real world

SPECIFICATIONS		PVI 3800TL	PVI 5200TL	PVI 6600TL	PVI 7600TL
DC Input					
Absolute Maximum Open Circuit Voltage		600 VDC			
Operating Voltage Range		120-550 VDC			
MPPT Input Voltage Range		200-500 VDC			
MPP Trackers		1	2		
Maximum Operating Input Current		20 A	15 A per MPP tracker	18 A per MPP tracker	20 A per MPP tracker
Start Voltage		150 V			
AC Output					
Nominal Output Voltage		208 or 240 VAC, 1-Ph			
AC Voltage Range		-12%/+10%			
Continuous Output Power	208 VAC	3300 W	5200 W	6600 W	6600 W
	240 VAC	3800 W	5200 W	6600 W	7600 W
Continuous Output Current	208 VAC	15.8 A	25 A	31.7 A	31.7 A
	240 VAC	15.8 A	21.6 A	27.5 A	31.7 A
Maximum Backfeed Current		0 A			
Nominal Output Frequency		60 Hz			
Output Frequency Range		59.3-60.5 Hz			
Power Factor		Unity, > 0.99			
Total Harmonic Distortion (THD) @ Rated Load		< 3%			
Efficiency					
Peak Efficiency		98.3%			
CEC Efficiency		97.5%			
Tare Loss		< 1 W			
Temperature					
Ambient Temperature Range (full power)		-13°F to +122°F (-25°C to +50°C)			
Storage Temperature Range		-40°F to +185°F (-40°C to +85°C)			
Relative Humidity (non-condensing)		0-100%			
Operating Altitude		6562 ft/2000 m			
Data Monitoring					
Optional SolrenView Web-based Monitoring		External			
Optional Revenue Grade Monitoring		External			
External Communication Interface		RS-485			
Testing & Certifications					
Safety Listings & Certifications		UL 1741/IEEE 1547, UL 1699B, CSA C22.2#107.1, FCC part 15 A&B			
Testing Agency		ETL	CSA		
Warranty					
Standard		10 year			
Optional		-			
Enclosure					
dBA (Decibel) Rating		< 45 dBA @ 3 m			
DC Disconnect		Standard, fully-integrated			
Dimensions (H x W x D)		17.5 x 15.8 x 8.5 in. (445 x 402 x 216 mm)	26.8 x 15.8 x 8.5 in. (681 x 402 x 216 mm)		
Weight		43 lbs (19.5 kg)	65 lbs (29.5 kg)		
Enclosure Rating		Type 4 + Salt Mist Corrosion Protection			
Enclosure Finish		Aluminum			